FEDERAL ITEM IDENTIFICATION GUIDE

COUPLINGS

This Reprint replaces FIIG A254, dated October 5, 2007.

Commander

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PUBLISHED BY DEFENSE LOGISTICS INFORMATION SERVICE, BATTLE CREEK, MI

This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

Table of Contents

GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

Index of Approved Item Names Covered by this FIIG
Applicability Key Index
Section I - Item Characteristics Data Requirements
Section III - New text that should be here.
Appendix A - Reply Tables
Appendix B - Reference Drawing Groups (as applicable)
Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign ($) for an OR condition, or a double dollar sign ($$) for an AND condition, (5) the mode code, (6) the response or reply code

(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

MRC	Mode Code	Requirement	Example
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

Index of Master Requirement Codes

INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

Approved Item Name	INC	App Key
COUPLING, CLAMP, GROOVED	20319	A

A metal loop having either a V or U cross section or channelled segment(s). It may be attached to a flat band. It is designed to create a fluid tight joint and/or connect pipe, tubing, tank cover(s), duct(s), and the like, by mating with flanged or beaded ferrule(s), flared, or beaded ends. It may or may not have a sealing inner liner. A latch or latches of the quick coupling type, nut or bolt type, or threaded trunnion type is (are) used to lock and adjust the band. Excludes COUPLING, CLAMP, PIPE and RING, LOCKING, METAL DRUM COVER.

COUPLING HALF, CLAMP, GROOVED	20320	B

A half section of a COUPLING, CLAMP, GROOVED to which one-half of a latching assembly (coupler) is attached. The section is designed to mate with formed flanges of various sizes and shapes on tubing, piping, ducts, and containers.

FERRULE, GROOVED CLAMP COUPLING	20317	C

A flanged, flared or beaded hollow cylindrical metallic item designed to be affixed to the end of a tube, pipe duct or the like. It is used to mate with the groove of a COUPLING, CLAMP, GROOVED to create a fluid tight joint and/or connection. See also FERRULE, BRAZING, TUBE FITTING.

SEGMENT, GROOVED, HALF	42737	D

An item with a facility on top for holding a clamping device in place that is used to exert pressure. Can have a V or U cross section. Excludes COUPLING HALF, CLAMP GROOVED.

APPLICABILITY KEY INDEX

	A	B	C	D
NAME	X	X	X	X
AAGR	X	X	X	X
ABGF	AR	AR		
ABPP	AR	AR		
ADTJ	AR	AR		
AJAT	AR	AR		
ALEB	AR	AR		
ALEC	AR	AR		
ALED	AR	AR		
ALEE	AR	AR		
HGTH	AR	AR		
AKZZ	AR	AR		
AAGT			AR	
AAHM			AR	
ABHP			AR	
AFQN			AR	
AGQL			AR	
AHTC			AR	
CQXK			AR	
ABKU				AR
ALEB				AR
ALEC				AR
AKZZ				AR
ANNQ	X	X	X	X
ANNR	AR	AR	AR	X
SHPE	X	X		
AARX	AR	AR		
ADJU	AR	AR		
ADJT	AR	AR		
AGPR	X	X		
ALDS	AR	AR		
ASXG	AR	AR		
CZHS				X
ABVT				AR
ABKV				AR
ALDT	X	X		AR
ALDW	X	X		
ABJH	X	X		
AGCS	X	X		
FEAT	AR	AR	AR	AR
TEST	AR	AR	AR	AR
SPCL	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR
ZZZW	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR
CRTL	AR	AR	AR	AR

PRPY	AR	AR	AR	AR
ELRN	AR	AR	AR	AR
ELCD	AR	AR	AR	AR
CXCY	AR	AR	AR	AR
AFJK	AR	AR	AR	AR
AFHV	AR	AR	AR	AR
PRMT	AR	AR	AR	AR
PMWT	AR	AR	AR	AR
PMLC	AR	AR	AR	AR
SUPP	AR	AR	AR	AR
ZZZP	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR
AGAV	AR	AR	AR	AR

SECTION I

APP Key	MRC	Mode Code	Requirements
ALL			
	NAME	D	ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code. (e.g., NAMED20319)*

ALL

AAGR	L	CROSS-SECTIONAL SHAPE STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE CROSS-SECTIONAL SHAPE OF THE ITEM.

Reply Instructions: Enter the applicable style number from Appendix B , Reference Drawing Group A, B, or D. (e.g., AAGRL3*)

NOTE FOR MRCS ANNQ AND ANNR: FOR COMPONENT TERMINOLOGY APPLICABLE TO LOCATION REPLIES, SEE APPENDIX B, REFERENCE DRAWING GROUP C.

ALL (See Note Above)

ANNQ	H	MATERIAL AND LOCATION

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE ITEM IS FACRICATED, EXCLUDING ANY SURFACE TREATMENT, AND ITS LOCATION.

Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1, followed by the applicable Reply Code from Appendix A, Table 4. (e.g., ANNQHSTB000AAB*)

For items with multiple materials and/or multiple locations, use AND/OR coding ($$/$), as applicable, entering in Appendix A, Table 1 sequence. (e.g., ANNQHBR0000AAB$HST1640AAB; ANNQHST0000AKW$$HSTB000AKW$$HAL0000AKX$$HPC0000AKX*)*

APP Key	MRC	Mode Code	Requirements

A*, B*, C*, D (See Note Preceding MRC ANNQ)

ANNR H SURFACE TREATMENT AND LOCATION

Definition: THE PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS THE SURFACE OF THE ITEM, AND ITS LOCATION.

Reply Instructions: Enter the applicable Reply Code from Appendix A ,Table 2, followed by the applicable Reply Code from the table below. (e.g., ANNRHAN0002AAB*)

For items with multiple treatments and/or locations, use AND/OR coding ($$/$), as applicable, entering in Appendix A, Table 2 sequence. (e.g., ANNRHAN0000AAB$HBBE000AAB; ANNRHAN0000AKW$$HBL0000AKW$$HCD0000AKX$$HEN0000AKX*)*

REPLY CODE	REPLY (AJ91)
AKS	BAND
AKT	BOLT
AKW	INNER LINER
AKX	NUT
AAB	OVERALL
EAB	QUICK RELEASE CATCH
AKY	SEGMENT
AZD	T BOLT
DJY	TRUNNION

A, B

SHPE D SHAPE

Definition: THE PHYSICAL CONFIGURATION OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., SHPEDBU*)

REPLY CODE	REPLY (AD07)
BU	HEXAGON
BM	OBLONG
BT	OVAL
RT	RECTANGULAR
RD	ROUND

APP Key	MRC	Mode Code	Requirements
		SQ	SQUARE

NOTE FOR MRCS AARX, ADJU, AND ADJT: REPLY TO MRC AARX IF REPLY CODE RD IS ENTERED FOR MRC SHPE. REPLY TO MRCS ADJU AND ADJT IF OTHER THAN REPLY CODE RD IS ENTERED FOR MRC SHPE.

A*, B* (See Note Above)

AARX J INSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA0.500*; AARXJLA12.7*; AARXJAB5.000$$JAC5.062*)

Table 1

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

Table 2

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

A*, B* (See Note Preceding MRC AARX)

ADJU J INSIDE LENGTH

Definition: A MEASUREMENT OF THE LONGEST INSIDE DIMENSION OF AN ITEM, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADJUJAA5.000*; ADJUJLA25.4*; ADJUJAB5.000$$JAC5.062*)

Table 1

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

APP Key	MRC	Mode Code	Requirements

Table 2

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

A*, B* (See Note Preceding MRC AARX)

ADJT J INSIDE WIDTH

Definition: AN INSIDE MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADJTJAA0.505*; ADJTJLA25.4*; ADJTJAB5.000$$JAC5.062*)

Table 1

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

Table 2

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

A, B

AGPR L LATCH STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE LATCH.

Reply Instructions: Enter the applicable style number from Appendix B , Reference Drawing Group C. (e.g., AGPRL31*)

A*, B*

ALDS D NUT TYPE

APP Key	MRC	Mode Code	Requirements

Definition: INDICATES THE TYPE OF NUT USED IN CONJUNCTION WITH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 5. (e.g., ALDSDAB*; ALDSDAB$DAF*)

NOTE FOR MRC ASXG: REPLY TO THIS MRC IF REPLY CODE AB, AC, AD, OR AE IS ENTERED FOR MRC ALDS.

A*, B* (See Note Above)

ASXG D DRILLED LOCKWIRE HOLE

Definition: AN INDICATION OF WHETHER OR NOT A DRILLED LOCKWIRE HOLE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ASXGDB*)

REPLY CODE	REPLY (AA49)
B	INCLUDED
C	NOT INCLUDED

D

CZHS L SEGMENT STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE SEGMENT.

Reply Instructions: Enter the applicable style number from Appendix B , Reference Drawing Group E. (e.g., CZHSL1*)

A, B, D*

ALDT A SEGMENT QUANTITY

Definition: THE NUMBER OF SEGMENTS INCLUDED IN THE ITEM.

Reply Instructions: Enter the quantity. (e.g., ALDTA3*)

A, B

APP Key	MRC	Mode Code	Requirements
	ALDW	D	SEALING INNER LINER

Definition: AN INDICATION OF WHETHER OR NOT A SEALING INNER LINER IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALDWDB*; ALDWDB$DC*)

REPLY CODE	REPLY (AA49)
B	INCLUDED
C	NOT INCLUDED

A, B

	ABJH	J	TEMP RATING

Definition: A VALUE WHICH EXPRESSES THE DEGREE OF HEAT OR COLD AS APPLIED TO THE OPERATION, OR LIMITATION OF OPERATION, OF AN ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. If the source document indicates a value below zero degrees, precede the entered value with the letter M (minus) (e.g., ABJHJCM50.0*). Without the letter M, the value will be assumed to be above zero (plus) (e.g., ABJHJC300.0*; ABJHJF572.0*; ABJHJCM50.0$$JC300.0*).

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ABJHKN*)

REPLY CODE	REPLY (AB36)
C	DEG CELSIUS
F	DEG FAHRENHEIT

A, B

	AGCS	J	MAXIMUM LOAD RATING

Definition: THE MAXIMUM LOAD FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AGCSJP51120.0*; AGCSJK23188.0*)

APP Key	MRC	Mode Code	Requirements

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AGCSKN*)

REPLY CODE	REPLY (AB16)
Z	DECANEWTONS
K	KILOGRAMS
P	POUNDS

ALL*

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)

ALL*

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

TESTJA1234A-654321$$JB5556A-663654*;

TESTJAA2345-654321$JB55566-663654*)

REPLY CODE	REPLY (AC28)
A	SPECIFICATION (Includes engineering type bulletins,

APP Key	MRC	Mode Code	Requirements
			brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)
		B	STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)
		C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)

ALL*

SPCL G SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ALL*

ZZZK J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

APP Key	MRC	Mode Code	Requirements

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B$$JP80205-NAS1103*)

REPLY CODE	REPLY (AN62)
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STD/SPEC
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICIATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL* (See Note Above)

ZZZT J NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 3, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1$$JSTA*; ZZZTJTY1$JSTA*)

ALL*

ZZZW G DEPARTURE FROM CITED DOCUMENT

APP Key	MRC	Mode Code	Requirements

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

ALL*

ZZZX G DEPARTURE FROM CITED DESIGNATOR

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

ALL*

ZZZY G REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

ALL*

CRTL A CRITICALITY CODE JUSTIFICATION

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

APP Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL$$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL* (See Note Above)

PRPY A PROPRIETARY CHARACTERISTICS

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding ($$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL$$ASURF*)

ALL*

ELRN G EXTRA LONG REFERENCE NUMBER

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

APP Key	MRC	Mode Code	Requirements

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

ALL*

ELCD D EXTRA LONG CHARACTERISTIC DESCRIPTION

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)

REPLY CODE	REPLY (AN58)
A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD

ALL*

CXCY G PART NAME ASSIGNED BY CONTROLLING AGENCY

Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM

Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD*)

SECTION III

APP Key	MRC	Mode Code	Requirements

ALL

AFJK J CUBIC MEASURE

APP Key	MRC	Mode Code	Requirements

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFJKJB10.25*; AFJKJG1680.5*)

REPLY CODE	REPLY (AD42)
B	CUBIC INCHES
G	CUBIC MILLIMETERS

ALL

AFHV J UNPACKAGED UNIT WEIGHT

Definition: THE MEASURED WEIGHT OF AN ITEM UNENCUMBERED BY PACKAGING OR PACKING MATERIAL.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFHVJP16.00*; AFHVJK7.2*)

REPLY CODE	REPLY (AB16)
K	KILOGRAMS
P	POUNDS

ALL

PRMT D PRECIOUS MATERIAL

Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., PRMTDAGA000*; PRMTDAUA000$$DAGA000*)

REPLY CODE	REPLY (MA01)
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM

APP Key	MRC	Mode Code	Requirements
		AGA000	SILVER

ALL

PMWT J PRECIOUS MATERIAL AND WEIGHT

Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter multiple replies in Table 1 sequence (e.g., PMWTJPTA000R0.780*; PMWTJAUA000F0.500$$JAGA000R0.780*)

Table 1

REPLY CODE	REPLY (MA01)
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

Table 2

REPLY CODE	REPLY (AG14)
E	GRAINS, TROY
R	GRAMS
F	OUNCES, TROY

ALL

PMLC J PRECIOUS MATERIAL AND LOCATION

Definition: AN INDICATION OF THE PRECIOUS MATERIAL AND ITS LOCATION IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the location in clear text. (e.g., PMLCJAUA000TERMINALS*; PMLCJAUA000TERMINALS$$JAGA000INTERNAL SURFACES*)

REPLY CODE	REPLY (MA01)
AUA000	GOLD
IRA000	IRIDIUM

APP Key	MRC	Mode Code	Requirements
		AZA000	OSMIUM
		PDA000	PALLADIUM
		PTA000	PLATINUM
		RHA000	RHODIUM
		RTA000	RUTHENIUM
		AGA000	SILVER

ALL

SUPP G SUPPLEMENTARY FEATURES

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)

ALL

ZZZP J PURCHASE DESCRIPTION IDENTIFICATION

Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.

Reply Instructions: Enter the 5-position CAGE Code and the identifying number of the document.

(e.g., ZZZPJ81337-30624A*)

ALL

ZZZV G FSC APPLICATION DATA

Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT*)

APP Key	MRC	Mode Code	Requirements
			Separate multiple replies with a semicolon. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT; BEARINGS,ANTIFRICTION, UNMOUNTED*)
ALL			
	AGAV	G	END ITEM IDENTIFICATION
			Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.
			Reply Instructions: Enter the applicable reply in clear text.
			(e.g., AGAVG3930-00-000-0000*;
			AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)

Reply Tables

Table 1 - MATERIALS

MATERIALS

REPLY CODE	REPLY (AD09)
AL0000	ALUMINUM ALLOY
AL0521	ALUMINUM ALLOY, AMS 4027, 6061, T6
AL0173	ALUMINUM ALLOY, AMS 4088
AL0495	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061, T6511
AL0221	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T6
AL0276	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, T4
AL0280	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T4
AL0332	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T3
AL0334	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T4
AL0343	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024
AL0056	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052
AL0386	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T4
AL0387	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T6
AL0385	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, 0
AL0531	ALUMINUM ALLOY, QQ-A-318-CANCELED
AL0155	ALUMINUM ALLOY, QQ-A-325-CANCELED
AL0451	ALUMINUM ALLOY, QQ-A-325, COMP 6061, GRADE T6-CANCELED
AL0547	ALUMINUM ALLOY, QQ-A-327-CANCELED
AL1021	ALUMINUM ALLOY, QQ-A-327, T4-CANCELED
AL0913	ALUMINUM ALLOY, QQ-A-327, T6-CANCELED
AL0533	ALUMINUM ALLOY, QQ-A-355, T4-CANCELED
AL0904	ALUMINUM ALLOY, QQ-A-362, O-CANCELED
AL0800	ALUMINUM ALLOY, QQ-A-362, T4-CANCELED
AL0431	ALUMINUM ALLOY, QQ-A-367, COMP 6061, T6
AL1051	ALUMINUM ALLOY, WW-T-787-CANCELED
AL0102	ALUMINUM ALLOY, 2024
AL0694	ALUMINUM ALLOY, 2024, T4
AL0153	ALUMINUM ALLOY, 5052
AL0105	ALUMINUM ALLOY, 5054
AL0106	ALUMINUM ALLOY, 5056

REPLY CODE	REPLY (AD09)
AL0107	ALUMINUM ALLOY, 5083
AL0108	ALUMINUM ALLOY, 5086
AL0109	ALUMINUM ALLOY, 6061
AL0110	ALUMINUM ALLOY, 6063
AL0111	ALUMINUM ALLOY, 6066
AL0112	ALUMINUM ALLOY, 7075
BR0000	BRASS
BR0053	BRASS, AMS 4712
BR0005	BRASS, AMS 4713
BR0041	BRASS, QQ-B-626, COMP 22, 1/2H
BR0031	BRASS, SAE CA260
CU0000	COPPER
CK0000	COPPER ALLOY
CK1184	COPPER ALLOY, 715
FE0350	IRON ALLOY, AMS 5525, COMP 660
FE0351	IRON ALLOY, AMS 5731, COMP 660
FE0352	IRON ALLOY, AMS 5732, COMP 660
FE0353	IRON ALLOY, AMS 5734, COMP 660
FE0354	IRON ALLOY, AMS 5737, COMP 660
FE0355	IRON ALLOY, MIL-C-27536, COMP 660
FE0163	IRON, QQ-I-666, CLASS B
NFF000	NICKEL ALLOY
NF0439	NICKEL ALLOY, AMS 5596
PC0000	PLASTIC
RC0000	RUBBER
RC1002	RUBBER, SILICONE, AMS 3304
RC0137	RUBBER, SYNTHETIC, AMS 3202
RC3440	RUBBER, SYNTHETIC, COMPOUND 82021, AEROQUIP CORP, AEROSPACE-MARMAN DIV, MARMAN PLANT
ST0000	STEEL
STB955	STEEL, A-286, CARPENTER TECHNOLOGY CORP, STEEL DIV
ST6756	STEEL, AISI 301
ST3844	STEEL, AISI 302
ST6757	STEEL, AISI 303
ST6771	STEEL, AISI 347
ST6780	STEEL, AISI 430
ST6781	STEEL, AISI 431
ST6440	STEEL, AISI 4037
ST6537	STEEL, AISI 8740
STX000	STEEL ALLOY CHROME-VANADIUM
STB956	STEEL, AMS 4037
ST2547	STEEL, AMS 5510
ST2873	STEEL, AMS 5512
STB948	STEEL, AMS 5515, TYPE 302, COND A
ST1806	STEEL, AMS 5516
ST1807	STEEL, AMS 5517
ST1808	STEEL, AMS 5518

REPLY CODE	REPLY (AD09)
	Steel, AMS 5525 (use Reply Code FE0350)
ST1801	STEEL, AMS 5526
ST1810	STEEL, AMS 5527
ST3111	STEEL, AMS 5528
STG314	STEEL, AMS 5528, COND TH1050
ST8793	STEEL, AMS 5535
ST7676	STEEL, AMS 5537
ST2833	STEEL, AMS 5542
STA181	STEEL, AMS 5595
	Steel, AMS 5596 (use Reply Code NF0439)
ST1811	STEEL, AMS 5627
ST1812	STEEL, AMS 5628
STB132	STEEL, AMS 5638, COMP 30302
ST2016	STEEL, AMS 5640
ST1813	STEEL, AMS 5642
ST1917	STEEL, AMS 5643
STG189	STEEL, AMS 5643, COND H1075
ST2441	STEEL, AMS 5644
ST1797	STEEL, AMS 5645
ST1814	STEEL, AMS 5721
ST3861	STEEL, AMS 5722
	Steel, AMS 5732 (use Reply Code FE0352)
	Steel, AMS 5735 (use Reply Code FE0352)
	Steel, AMS 5736 (use Reply Code FE0351)
	Steel, AMS 5737 (use Reply Code FE0354)
ST1800	STEEL, AMS 6322
ST1609	STEEL, AMS 7228
	STEEL, AMS 7478 (use Reply Code FE0351)
	STEEL, AMS 7479 (use Reply Code FE0353)
STF437	STEEL, ASTM A304
STD851	STEEL, ASTM A322
STD887	STEEL, ASTM A331
STF049	STEEL, ASTM A582, TYPE 303
STG785	STEEL, COMP 304
STG786	STEEL, COMP 316
STB000	STEEL, CORROSION RESISTING
ST1613	STEEL, FED STD 66, AISI 301/SAE 30301
ST1634	STEEL, FED STD 66, AISI 431/SAE 51431
ST0972	STEEL, FED STD 66, ANY COMPOSITION WHICH CAN BE HEAT TREATED IN ACCORDANCE WITH MIL-H-6875
ST1817	STEEL, FED STD 66, COMP 302
ST1818	STEEL, FED STD 66, COMP 303
ST1819	STEEL, FED STD 66, COMP 321
ST1820	STEEL, FED STD 66, COMP 347
ST2377	STEEL, FED STD 66, CRES 300 SERIES
ST1601	STEEL, FED STD 66, SAE 9840H
	Steel, MIL-C-27536 (use Reply Code FE0355)

REPLY CODE	REPLY (AD09)
STB957	STEEL, MIL-N-7873
ST2520	STEEL, MIL-S-5059
ST3313	STEEL, MIL-S-5059, COMP D, COND A
ST7549	STEEL, MIL-S-5059, COMP D, COND H
STB949	STEEL, MIL-S-5059, COMP D, 1/2 HARD
ST8817	STEEL, MIL-S-5059, COMP D, 1/4 HARD
ST7551	STEEL, MIL-S-5059, COMP G, COND A
STA180	STEEL, MIL-S-5059, COMP 302
ST7571	STEEL, MIL-S-5059, COMP 316
ST1828	STEEL, MIL-S-5059, COMP 316, 1/4 HARD
ST8794	STEEL, MIL-S-5059, COND A
ST8818	STEEL, MIL-S-5059, COND ANNEALED
ST1639	STEEL, MIL-S-5059, TYPE 301
ST1821	STEEL, MIL-S-5059, TYPE 301, ANNEALED
ST1835	STEEL, MIL-S-5059, TYPE 301, HARD
ST1829	STEEL, MIL-S-5059, TYPE 301, 1/2 HARD
ST1825	STEEL, MIL-S-5059, TYPE 301, 1/4 HARD
ST1832	STEEL, MIL-S-5059, TYPE 301, 3/4 HARD
ST1822	STEEL, MIL-S-5059, TYPE 302, ANNEALED
ST1836	STEEL, MIL-S-5059, TYPE 302, HARD
ST1830	STEEL, MIL-S-5059, TYPE 302, 1/2 HARD
ST1826	STEEL, MIL-S-5059, TYPE 302, 1/4 HARD
ST1833	STEEL, MIL-S-5059, TYPE 302, 3/4 HARD
ST1823	STEEL, MIL-S-5059, TYPE 304, ANNEALED
ST1837	STEEL, MIL-S-5059, TYPE 304, HARD
ST1831	STEEL, MIL-S-5059, TYPE 304, 1/2 HARD
ST1827	STEEL, MIL-S-5059, TYPE 304, 1/4 HARD
ST1834	STEEL, MIL-S-5059, TYPE 304, 3/4 HARD
ST1824	STEEL, MIL-S-5059, TYPE 316, ANNEALED
ST9452	STEEL, MIL-S-5059, 1/2 HARD
STA182	STEEL, MIL-S-5059, 1/4 HARD
ST1895	STEEL, MIL-S-6049
ST1896	STEEL, MIL-S-6050
ST1897	STEEL, MIL-S-6098
ST2014	STEEL, MIL-S-6721
ST2364	STEEL, MIL-S-6721, COMP CB
STB950	STEEL, MIL-S-6721, COMP CB-TA
ST2366	STEEL, MIL-S-6721, COMP CB-TA 347
ST2365	STEEL, MIL-S-6721, COMP TI
STB959	STEEL, MIL-S-6721, TYPE T 1, 1/2 HARD
STB960	STEEL, MIL-S-6721, TYPE T 1, 1/8 HARD
STB961	STEEL, MIL-S-6721, 1/8 HARD
ST1840	STEEL, MIL-S-6758
ST2423	STEEL, MIL-S-7720
ST1640	STEEL, MIL-S-7720, COMP 302
ST2798	STEEL, MIL-S-7720, COMP 303
ST1641	STEEL, MIL-S-7720, COMP 303S

REPLY CODE	REPLY (AD09)
ST1642	STEEL, MIL-S-7720, COMP 303SE
ST1643	STEEL, MIL-S-7720, COMP 316
ST2381	STEEL, MIL-S-8695-CANCELED
ST2921	STEEL, MIL-S-8695, COMP 4037-CANCELED
STB962	STEEL, MIL-S-8695, COND A-CANCELED
STB963	STEEL, MIL-S-8695, COND F4-CANCELED
STF569	STEEL, MIL-S-8879
ST2801	STEEL, MIL-S-13433-CANCELED
ST2830	STEEL, MIL-S-18729
ST1644	STEEL, MIL-S-18732
ST8008	STEEL, MIL-S-18732, COND A
ST9872	STEEL, MIL-S-18732, COND HT-175
ST1838	STEEL, MIL-S-18732, TYPE 431
STA112	STEEL, MIL-S-18732, TYPE 431, COND A
ST1718	STEEL, QQ-S-624-CANCELED
ST1449	STEEL, QQ-S-624, COMP 4037-CANCELED
ST3187	STEEL, QQ-S-685-CANCELLED
ST1646	STEEL, QQ-S-763, CLASS 302
ST1647	STEEL, QQ-S-763, CLASS 303
ST1651	STEEL, QQ-S-763, CLASS 305
ST1665	STEEL, QQ-S-763, CLASS 430
ST1666	STEEL, QQ-S-763, CLASS 431
ST1859	STEEL, QQ-S-764, TYPE 303, COND A-CANCELED
ST3123	STEEL, QQ-S-764, TYPE 303S-CANCELED
ST1860	STEEL, QQ-S-764, TYPE 303SE, COND A-CANCELED
STB964	STEEL, QQ-S-764, TYPE 303SE, COND 1/4 HARD-CANCELED
STB965	STEEL, QQ-S-764, TYPE 430-CANCELED
ST7648	STEEL, QQ-S-766, CLASS 1
ST7664	STEEL, QQ-S-766, CLASS 2
STB966	STEEL, QQ-S-766, CLASS 6
ST1748	STEEL, QQ-S-766, CLASS 301
ST2630	STEEL, QQ-S-766, CLASS 301, TEMP 1/2 HARD
ST3628	STEEL, QQ-S-766, 300 SERIES
ST5085	STEEL, QQ-W-423, COMP 302
ST8435	STEEL, SAE 2330
ST6635	STEEL, SAE 4037
STB967	STEEL, SAE 5642
ST6716	STEEL, SAE 8630
ST6898	STEEL, SAE 51431
	Steel, Stainless, Nonmagnetic (use Reply Code STB000)
	Steel, Stainless (use Reply Code STB000)
STB968	STEEL, 21-6-9, ARMCO STEEL CORP
STB954	STEEL, 21-6-9, ARMCO STEEL CORP, INTERNATIONAL DIV
STB952	STEEL, 21-6-9, COMP ACES 1124, COND 2, AEROQUIP CORP, AEROSPACE-MARMAN DIV, MARMAN PLANT
TT0002	TITANIUM ALLOY, AMS 4901
TT0023	TITANIUM, MIL-T-9046, TYPE 1, COMP A

REPLY CODE	REPLY (AD09)
TT0009	TITANIUM, MIL-T-9046, TYPE 1, COMP B

Table 2 - SURFACE TREATMENTS

SURFACE TREATMENTS

REPLY CODE	REPLY (AD09)
AN0000	ANODIZED Anodized Anodic Film, MIL-C-5541 (use Reply Code XX0002)
AN0002	ANODIZED, MIL-A-8625
AN0003	ANODIZED, MIL-A-8625, TYPE 1
AN0005	ANODIZED, MIL-A-8625, TYPE 1, CLASS 1
AN0004	ANODIZED, MIL-A-8625, TYPE 2
AN0008	ANODIZED, MIL-A-8625, TYPE 2, CLASS 2
AN0009	ANODIZED, MIL-A-8625, TYPE 3, CLASS 1
BBE000	BLACK CHEMICAL
BB0000	BLACK NICKEL
BA0000	BLACK OXIDE
BA0002	BLACK OXIDE, MIL-C-13924, CLASS 1
BA0003	BLACK OXIDE, MIL-C-13924, CLASS 2
BA0004	BLACK OXIDE, MIL-C-13924, CLASS 3
BA0001	BLACK OXIDE, MIL-F-495
BL0000	BLUED
BR0000	BRASS
BN0000	BRONZE
CD0000	CADMIUM
CD0001	CADMIUM, AMS 2400
CD0002	CADMIUM, AMS 2416
CD0054	CADMIUM AND IRIDITE, 580-00-2000, COLLINS RADIO CO
CD0003	CADMIUM, NAS 672
CD0015	CADMIUM, QQ-P-416
CD0004	CADMIUM, QQ-P-416, TYPE 1, CLASS 1
CD0005	CADMIUM, QQ-P-416, TYPE 1, CLASS 2
CD0006	CADMIUM, QQ-P-416, TYPE 1, CLASS 3
CD0007	CADMIUM, QQ-P-416, TYPE 2, CLASS 1
CD0008	CADMIUM, QQ-P-416, TYPE 2, CLASS 2
CD0009	CADMIUM, QQ-P-416, TYPE 2, CLASS 3
CD0010	CADMIUM, QQ-P-416, TYPE 3, CLASS 1
CD0011	CADMIUM, QQ-P-416, TYPE 3, CLASS 2
CD0012	CADMIUM, QQ-P-416, TYPE 3, CLASS 3
CN0000	CHROMATE (Iridite) (Cronak)
CN0010	CHROMATE, MIL-C-5541
CR0000	CHROMIUM
CR0024	CHROMIUM, QQ-C-320, TYPE 1, CLASS 2
CR0011	CHROMIUM, QQ-C-320, TYPE 1, CLASS 2A
CR0012	CHROMIUM, QQ-C-320, TYPE 1, CLASS 2B
CR0013	CHROMIUM, QQ-C-320, TYPE 1, CLASS 2C

REPLY CODE	REPLY (AD09)
CR0014	CHROMIUM, QQ-C-320, TYPE 1, CLASS 2D
CR0015	CHROMIUM, QQ-C-320, TYPE 1, CLASS 2E
CR0016	CHROMIUM, QQ-C-320, TYPE 2, CLASS 2
CR0017	CHROMIUM, QQ-C-320, TYPE 2, CLASS 2A
CR0018	CHROMIUM, QQ-C-320, TYPE 2, CLASS 2B
CR0019	CHROMIUM, QQ-C-320, TYPE 2, CLASS 2C
CR0020	CHROMIUM, QQ-C-320, TYPE 2, CLASS 2D
CR0021	CHROMIUM, QQ-C-320, TYPE 2, CLASS 2E
FN0103	COATING, ALUMINUM, MIL-C-83488, CLASS 2, TYPE 2
EN0000	ENAMEL
ENF000	ENAMEL, BLACK
AU0000	GOLD
AUB000	GOLD PLATE OVER SILVER PLATE
AUG000	GOLD PLATED
MM0000	IMMUNIZED
LQ0000	LACQUER
NF0000	NICKEL
NF0024	NICKEL, QQ-N-290
	Nickel, QQ-N-290, Class and Type A/A (use Reply Code NF0024)
NF0004	NICKEL, QQ-N-290, CLASS 1, TYPE 1
NF0005	NICKEL, QQ-N-290, CLASS 1, TYPE 2
NF0006	NICKEL, QQ-N-290, CLASS 1, TYPE 3
NF0007	NICKEL, QQ-N-290, CLASS 1, TYPE 4
NF0008	NICKEL, QQ-N-290, CLASS 1, TYPE 5
NF0009	NICKEL, QQ-N-290, CLASS 1, TYPE 6
XX0002	OXIDE FILM, MIL-C-5541
XX0004	OXIDE FILM, MIL-C-5541, TYPE 1
PN0000	PAINTED
PS0327	PASSIVATE, ACES 16P3, COONEY INDUSTRIES INC
PS0000	PASSIVATED
PS0003	PASSIVATED, MIL-S-5002
PS0011	PASSIVATED, MIL-STD-171
PS0007	PASSIVATED, QQ-P-35
PH0000	PHOSPHATE
PC2955	PLASTIC, POLYURETHANE, MIL-C-46168
AG0000	SILVER
AG0001	SILVER, AMS 2410
AG0017	SILVER, AMS 2411
AGE000	SILVER PLATED
AG0012	SILVER PLATED, QQ-S-365
	Silver, QQ-S-365, Type A/A (use Reply Code AG0012)
AG0005	SILVER, QQ-S-365, TYPE 1, GRADE A
AG0006	SILVER, QQ-S-365, TYPE 1, GRADE B
SN0000	TIN
SN0010	TIN PLATED, MIL-T-10727
ZN0000	ZINC
ZNA000	ZINC CHROMATE
ZN0001	ZINC, QQ-Z-325, TYPE 1, CLASS 1

REPLY CODE	REPLY (AD09)
ZN0002	ZINC, QQ-Z-325, TYPE 1, CLASS 2
ZN0003	ZINC, QQ-Z-325, TYPE 1, CLASS 3
ZN0004	ZINC, QQ-Z-325, TYPE 2, CLASS 1
ZN0005	ZINC, QQ-Z-325, TYPE 2, CLASS 2
ZN0006	ZINC, QQ-Z-325, TYPE 2, CLASS 3
ZN0007	ZINC, QQ-Z-325, TYPE 3, CLASS 1
ZN0008	ZINC, QQ-Z-325, TYPE 3, CLASS 2
ZN0009	ZINC, QQ-Z-325, TYPE 3, CLASS 3

Table 3 - NONDEFINITIVE SPEC/STD DATA

NONDEFINITIVE SPEC/STD DATA

REPLY CODE	REPLY (AD08)
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT

REPLY CODE	REPLY (AD08)
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER

REPLY CODE	REPLY (AD08)
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Table 4 - MATERIAL LOCATION
MATERIAL LOCATION

REPLY CODE	REPLY (AJ91)
AKS	BAND
AKT	BOLT
EAL	BONDING WIRE
ALE	BUSHING
EAM	COTTER PIN
EAN	HINGE
DPD	HOOK
DMF	HOSE
AKW	INNER LINER
DMG	LATCH
EAP	LATCH PIVOT
BXA	LINK
EAQ	LOCK
AZA	LUG
AKX	NUT
AAB	OVERALL
ALG	PIN
AYJ	PLATE
AGK	PLUG
EAB	QUICK RELEASE CATCH
CAK	RETAINER
BJQ	RING
CBT	RIVET
BPM	SCREW
BKK	SEAL
AKY	SEGMENT
AGN	SLEEVE
ALH	SPRING
AHB	STRAP
AZD	T BOLT
DJY	TRUNNION
AYS	WASHER

Table 5 - NUT TYPE

NUT TYPE

REPLY CODE	REPLY (AH33)
AP	PLAIN CASTELLATED HEXAGON
AQ	PLAIN EXTENDED WASHER HEXAGON
AB	PLAIN HEXAGON
AC	PLAIN KNURLED
AD	PLAIN ROUND
AT	PLAIN SQUARE
AE	PLAIN WING
AU	SELF-LOCKING CAP
AS	SELF-LOCKING DOUBLE HEXAGON
AF	SELF-LOCKING HEXAGON
AG	SELF-LOCKING WING
AR	TRUNNION NUT

Reference Drawing Groups

REFERENCE DRAWING GROUP A Tables
COUPLING CROSS-SECTIONAL STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables l and 2 below, followed by the numeric value. (e.g., ALEBJAA0.250*; ALEBJLA63.5*; ALEBJAB0.245$$JAC0.255*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

MRC	Mode Code	Name of Dimension
ABGF	J	GROOVE WIDTH
ABPP	J	OPENING WIDTH
ADTJ	J	RETAINER THICKNESS
AJAT	J	OFFSET HEIGHT
ALEB	J	RETAINER WIDTH
ALEC	J	ROOT WIDTH
ALED	J	BAND THICKNESS
ALEE	J	BAND WIDTH
HGTH	J	HEIGHT

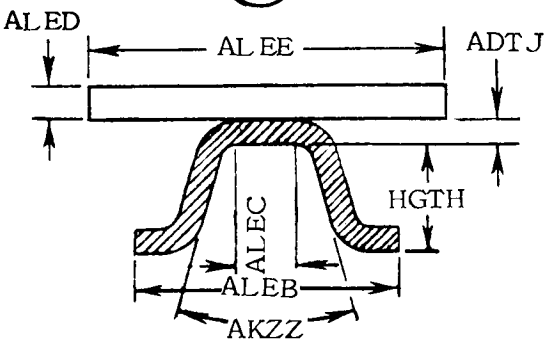
Enter the numeric value. (e.g., AKZZB45.0*)

MRC	Mode Code	Name of Dimension
AKZZ	B	INCLUDED ANGLE IN DEG

REFERENCE DRAWING GROUP A

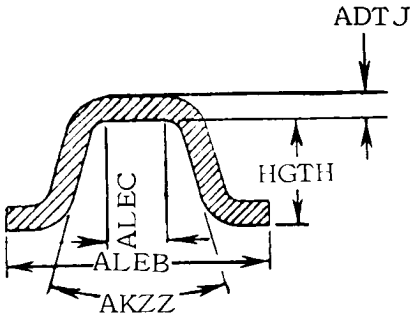
COUPLING CROSS-SECTIONAL STYLES

1



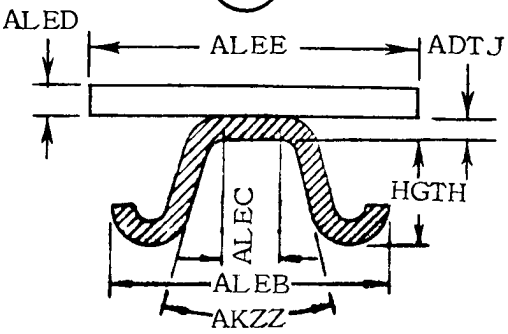
GROOVED RETAINER

1A



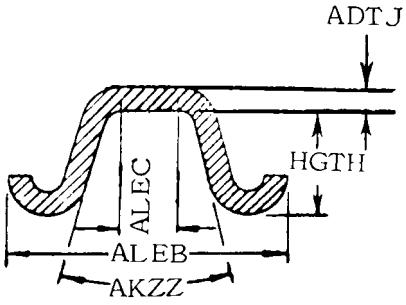
GROOVED RETAINER

2



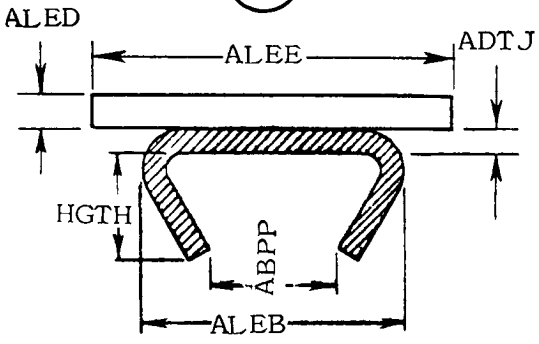
GROOVED RETAINER

2A



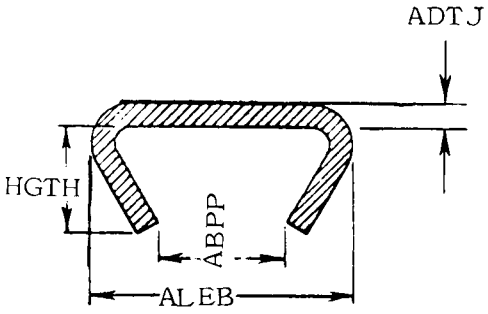
GROOVED RETAINER

3

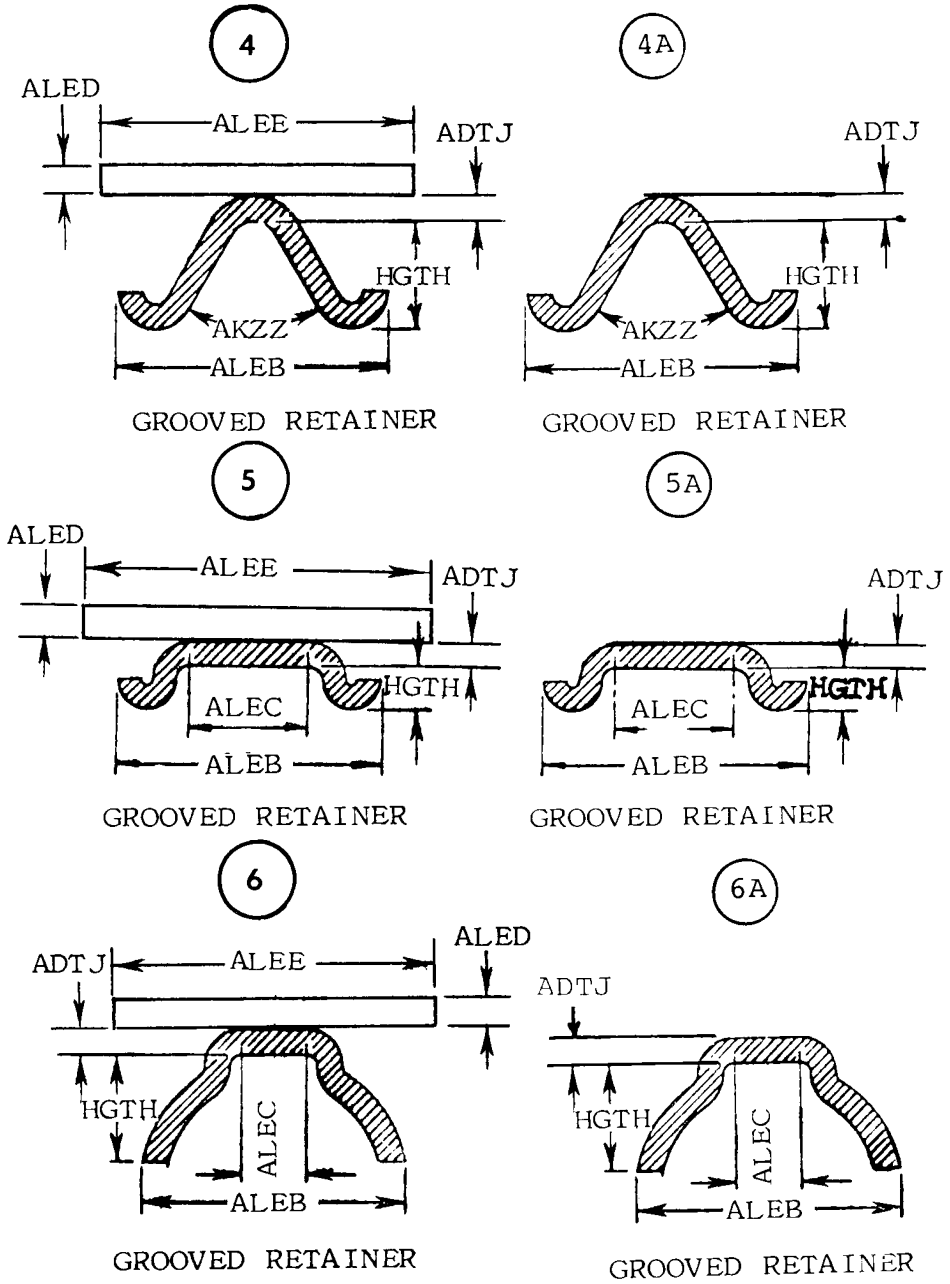


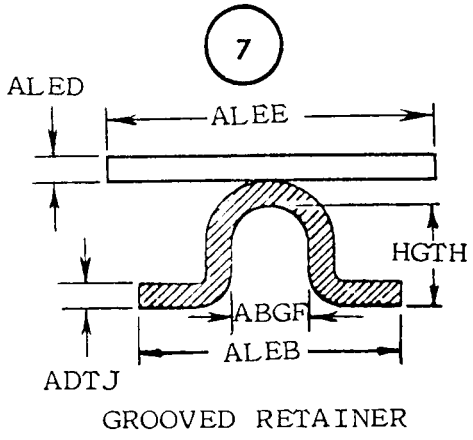
GROOVED RETAINER

3A

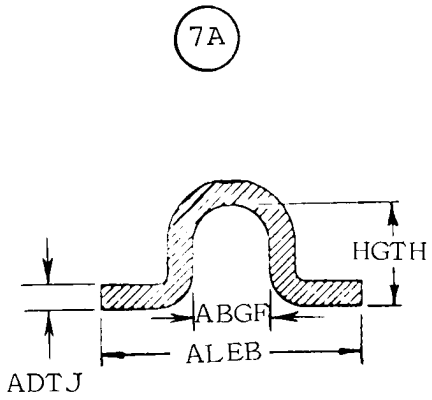


GROOVED RETAINER

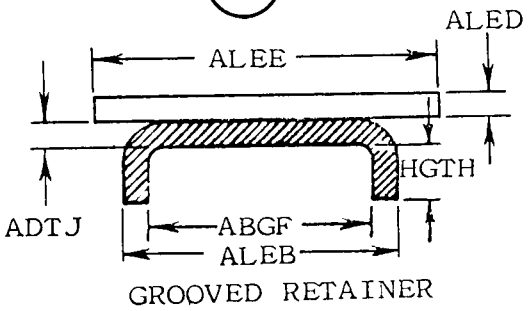

4
ALED
ALEE
ADTJ
HGTH
AKZZ
ALEB
GROOVED RETAINER
4A
ADTJ
HGTH
AKZZ
ALEB
GROOVED RETAINER
5
ALED
ALEE
ADTJ
HGTH
ALEC
ALEB
GROOVED RETAINER
5A
ADTJ
HGTH
ALEC
ALEB
GROOVED RETAINER
6
ADTJ
ALEE
ALED
HGTH
ALEC
ALEB
GROOVED RETAINER
6A
ADTJ
HGTH
ALEC
ALEB
GROOVED RETAINER



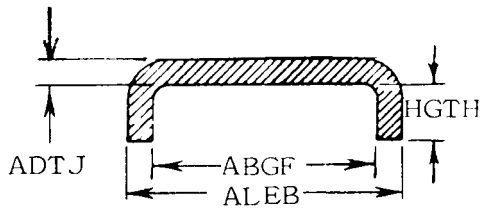
GROOVED RETAINER



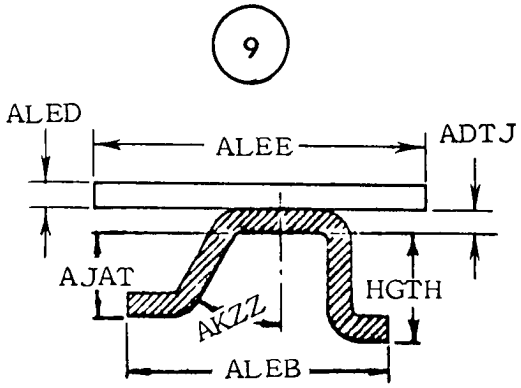
GROOVED RETAINER



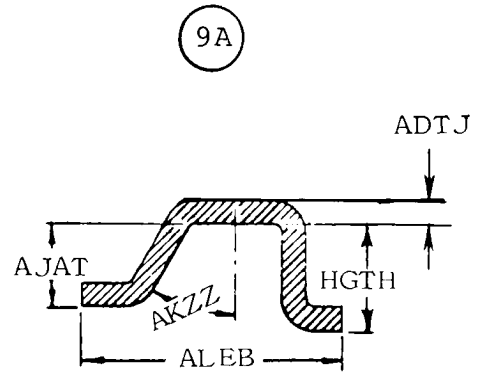
GROOVED RETAINER



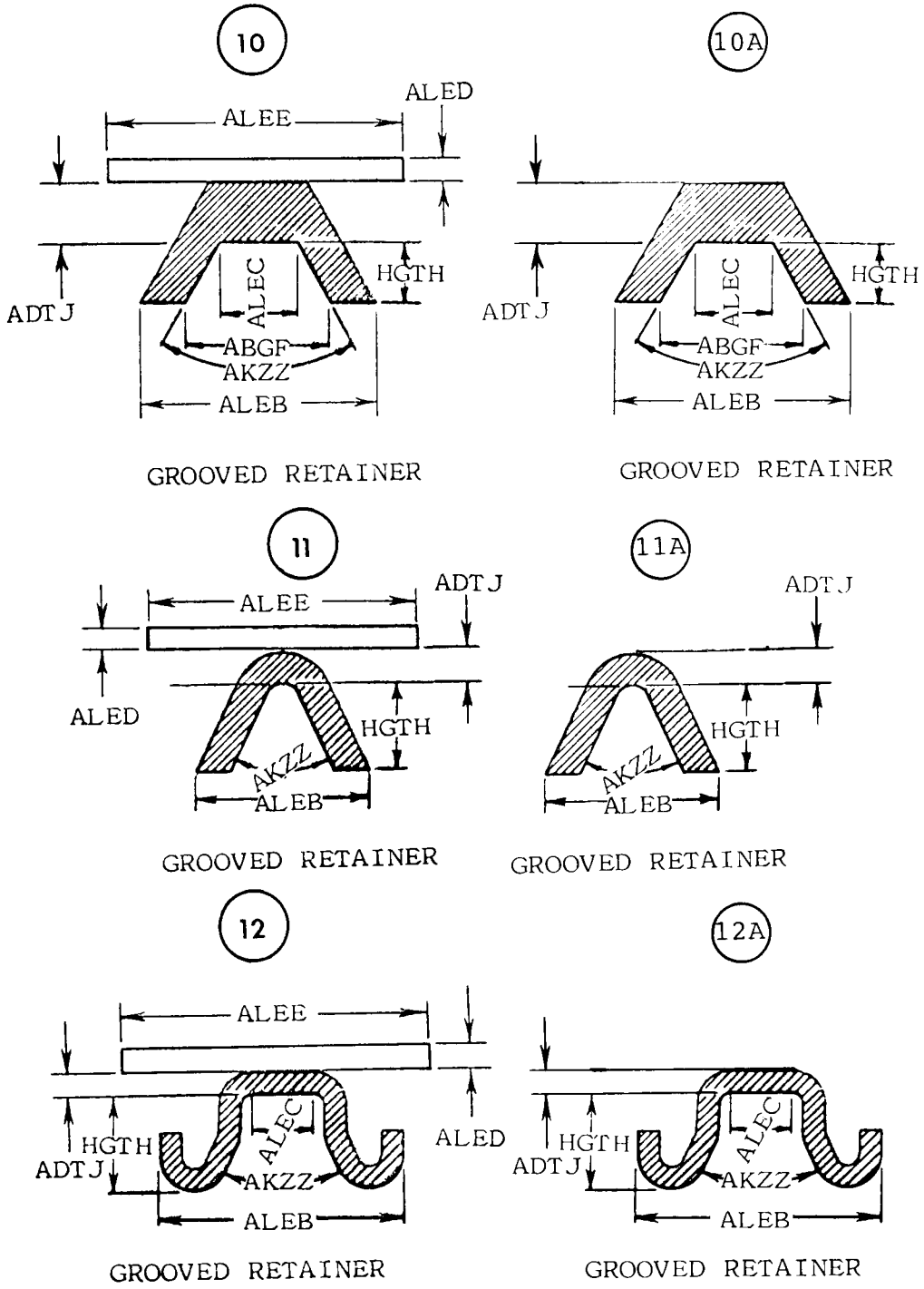
GROOVED RETAINER



GROOVED RETAINER



GROOVED RETAINER


10
ALED
ALEE
ADTJ
HGTH
ALEC
ABGF
AKZZ
ALEB
GROOVED RETAINER
10A
ADTJ
HGTH
ALEC
ABGF
AKZZ
ALEB
GROOVED RETAINER
11
ADTJ
ALEE
ALED
HGTH
AKZZ
ALEB
GROOVED RETAINER
11A
ADTJ
HGTH
AKZZ
ALEB
GROOVED RETAINER
12
ALEE
HGTH
ADTJ
ALEC
ALED
AKZZ
ALEB
GROOVED RETAINER
12A
HGTH
ADTJ
ALEC
AKZZ
ALEB
GROOVED RETAINER

REFERENCE DRAWING GROUP B Tables
FERRULE CROSS-SECTIONAL STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables l and 2 below, followed by the numeric value. (e.g., ABHPJAA0.250*; ABHPJLA6.3*; ABHPJAB0.245$$JAC0.255*)

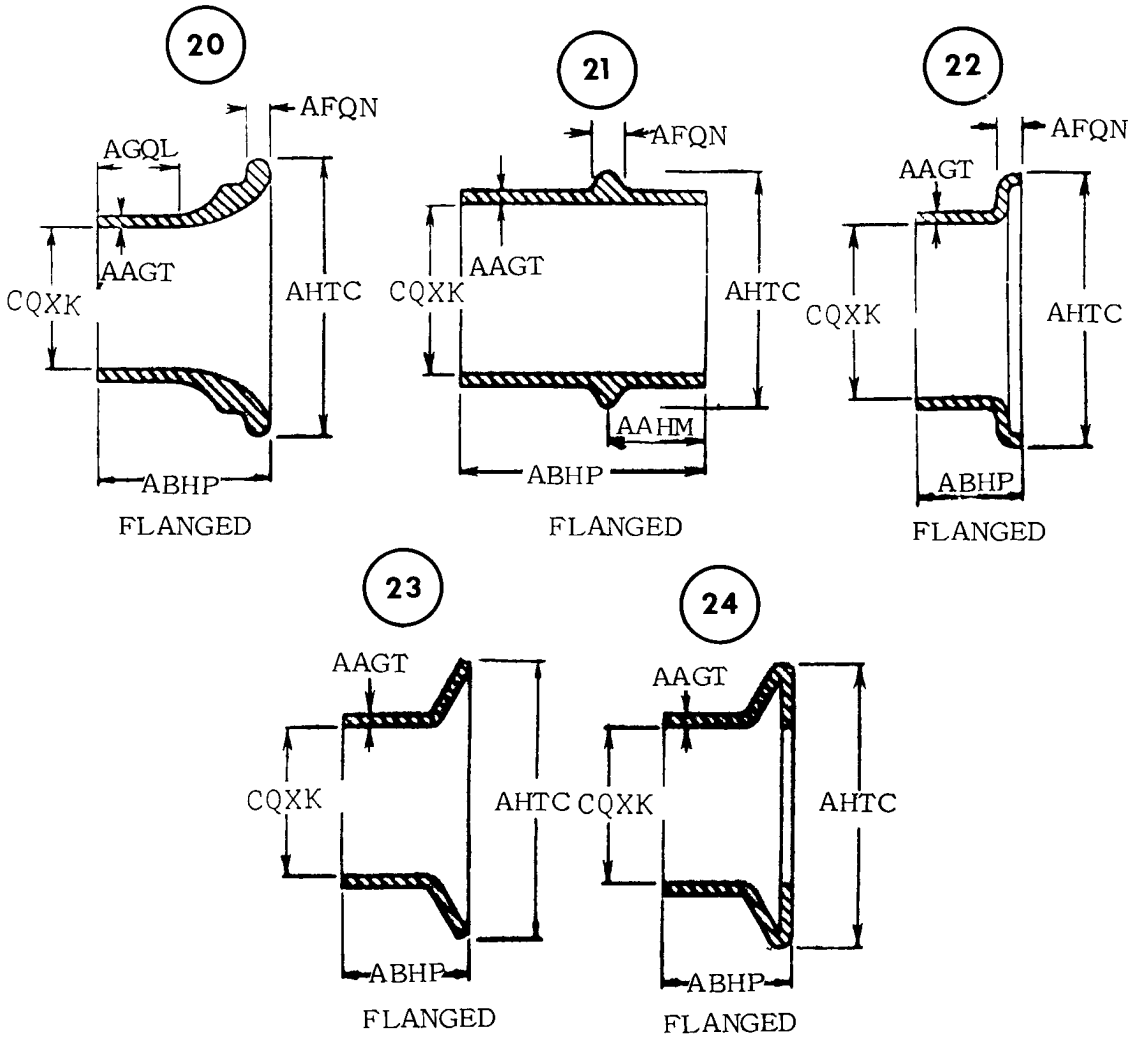
REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

MRC	Mode Code	Name of Dimension
AAGT	J	WALL THICKNESS
AAHM	J	FIRST END LENGTH FROM BEAD CENTER TO END
ABHP	J	OVERALL LENGTH
AFQN	J	FLANGE LENGTH
AGQL	J	UNDERCUT LENGTH
AHTC	J	FLANGE OUTSIDE DIAMETER
CQXK	J	FERRULE INSIDE DIAMETER

REFERENCE DRAWING GROUP B

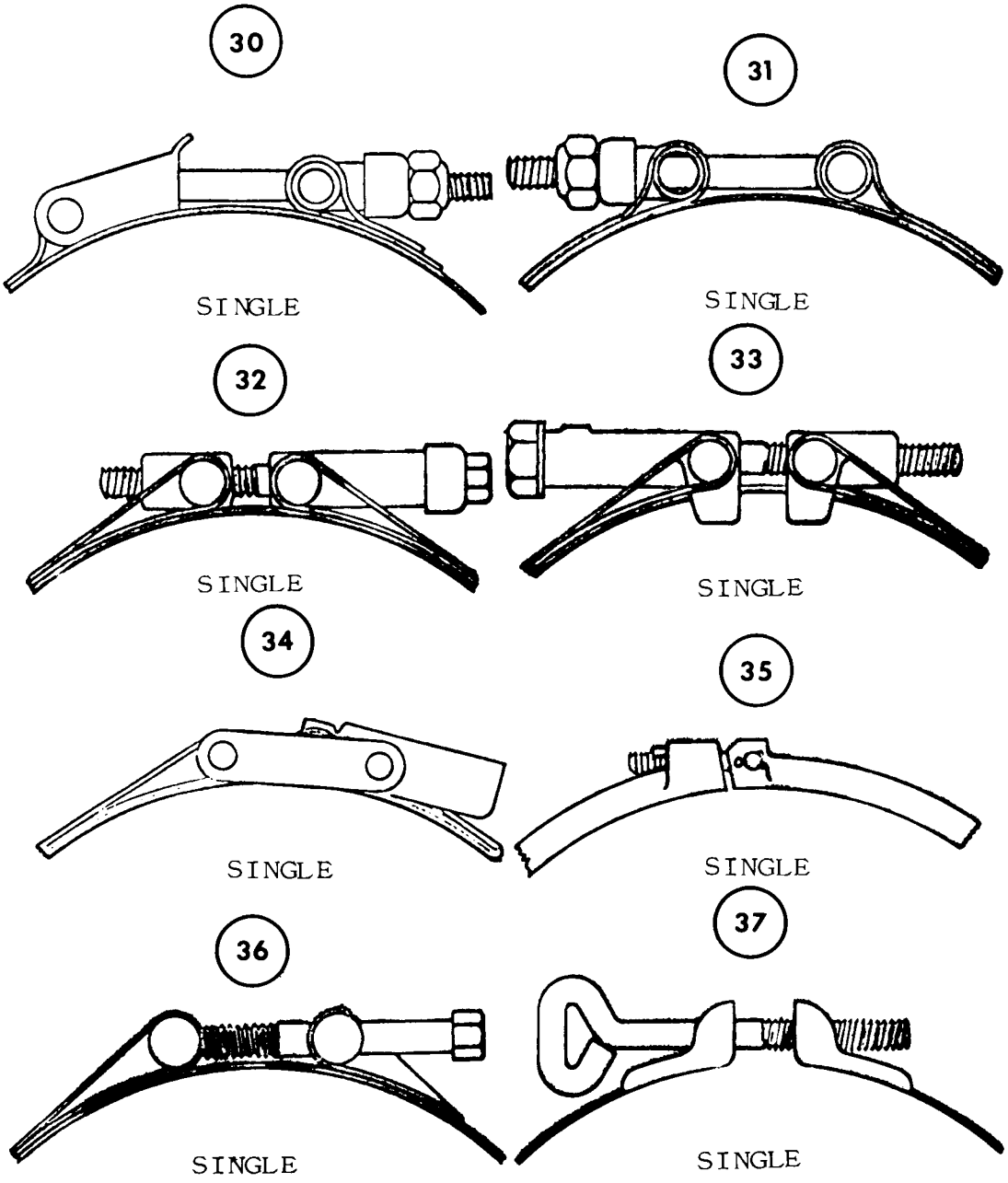
FERRULE CROSS-SECTIONAL STYLES

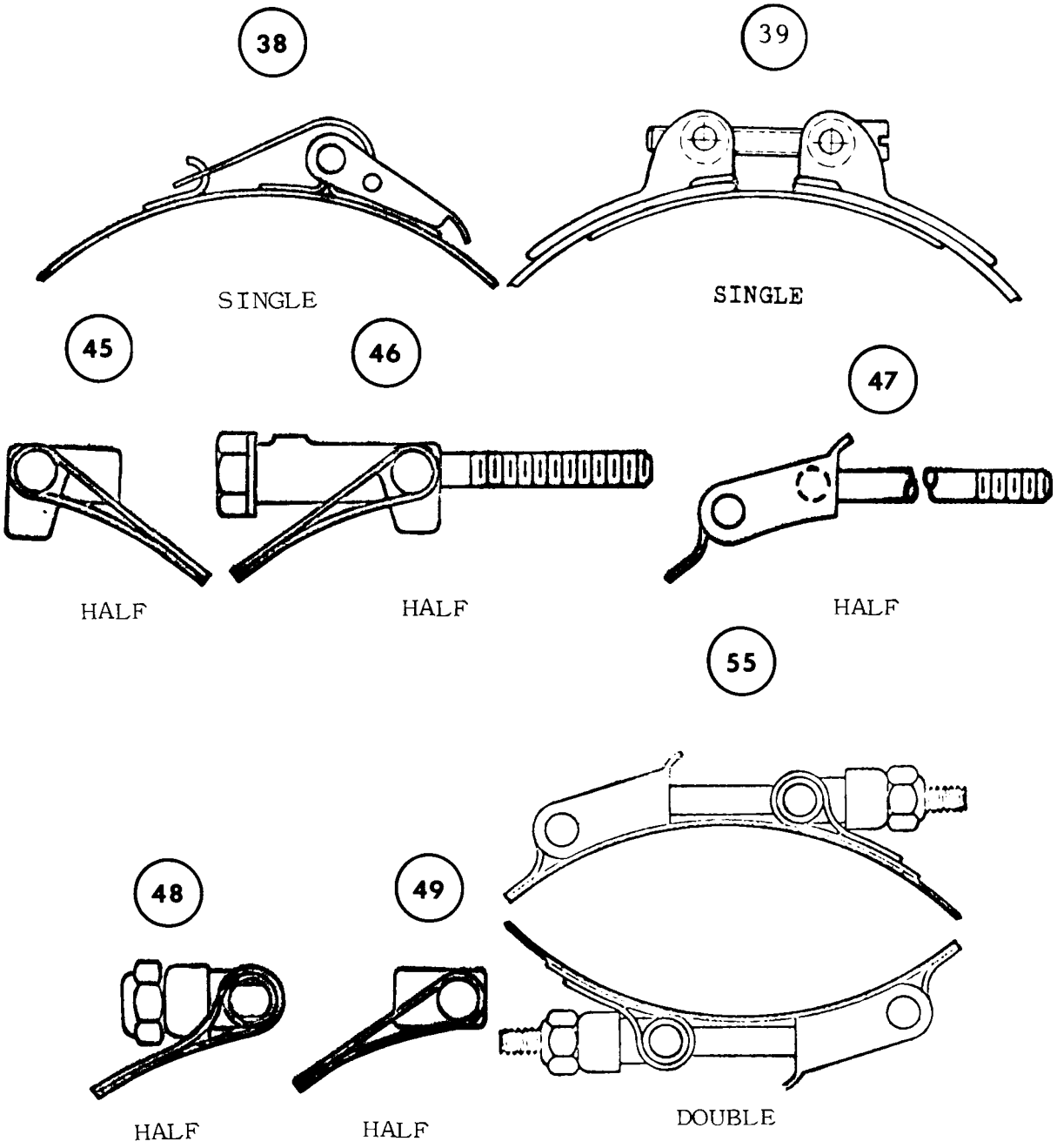


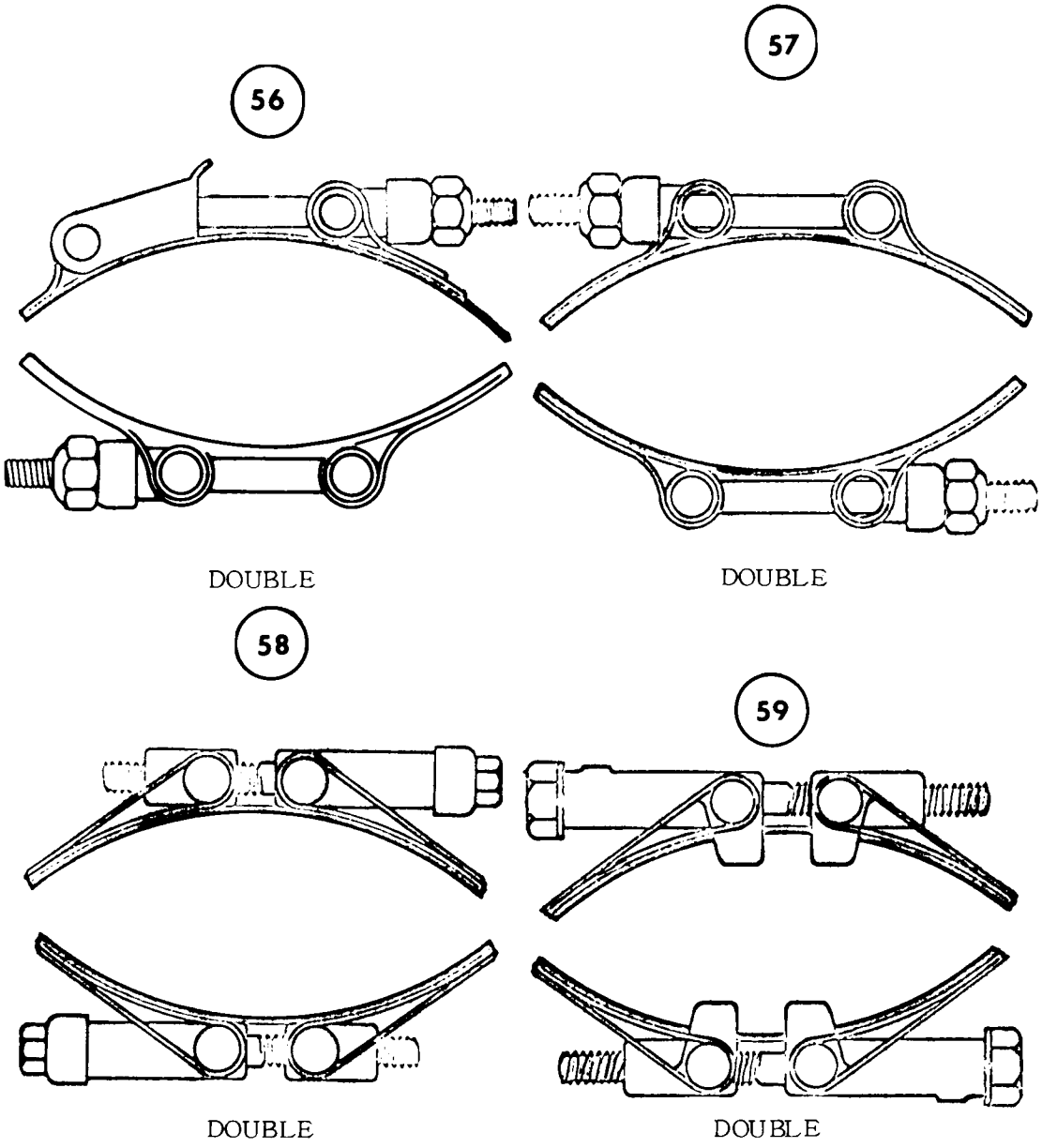
REFERENCE DRAWING GROUP C

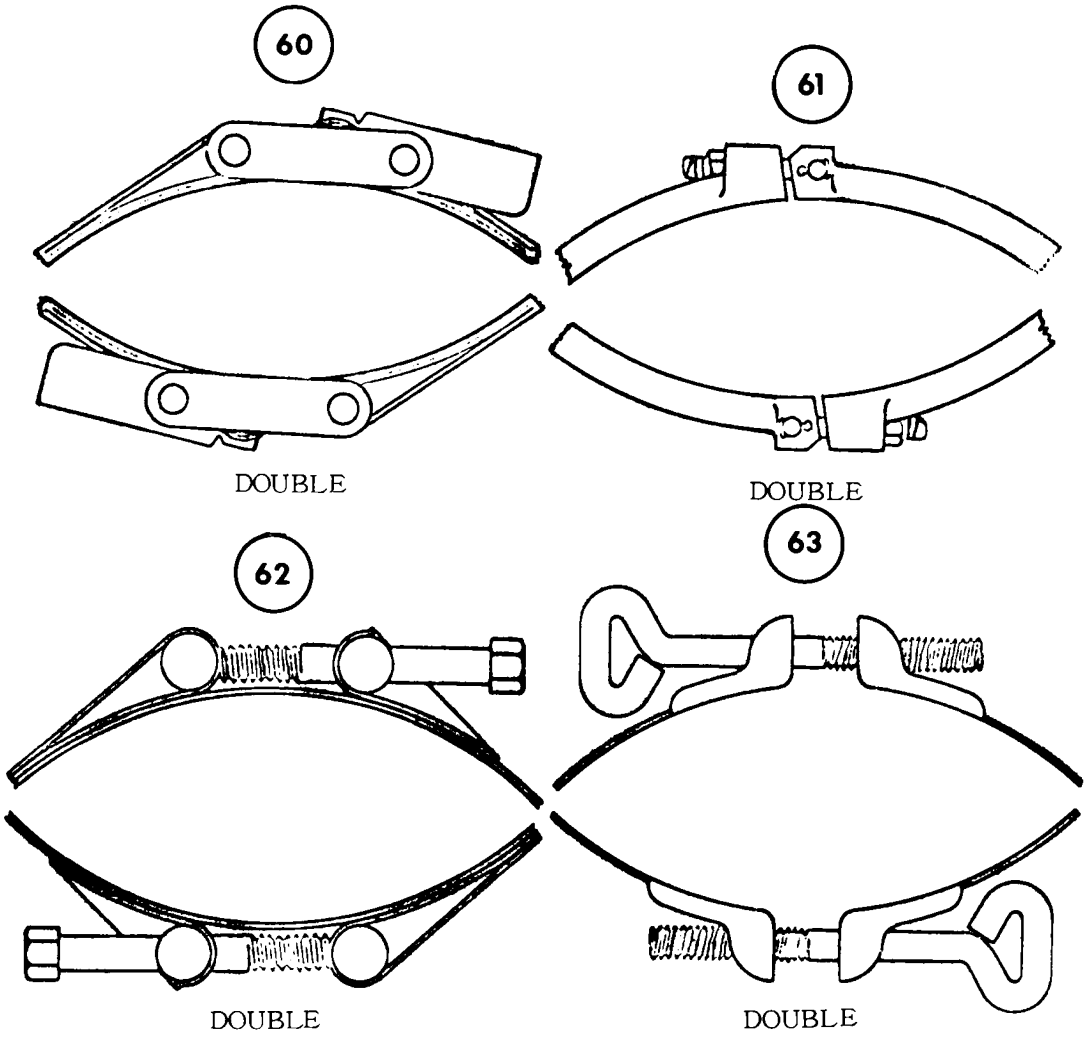
LATCH STYLES

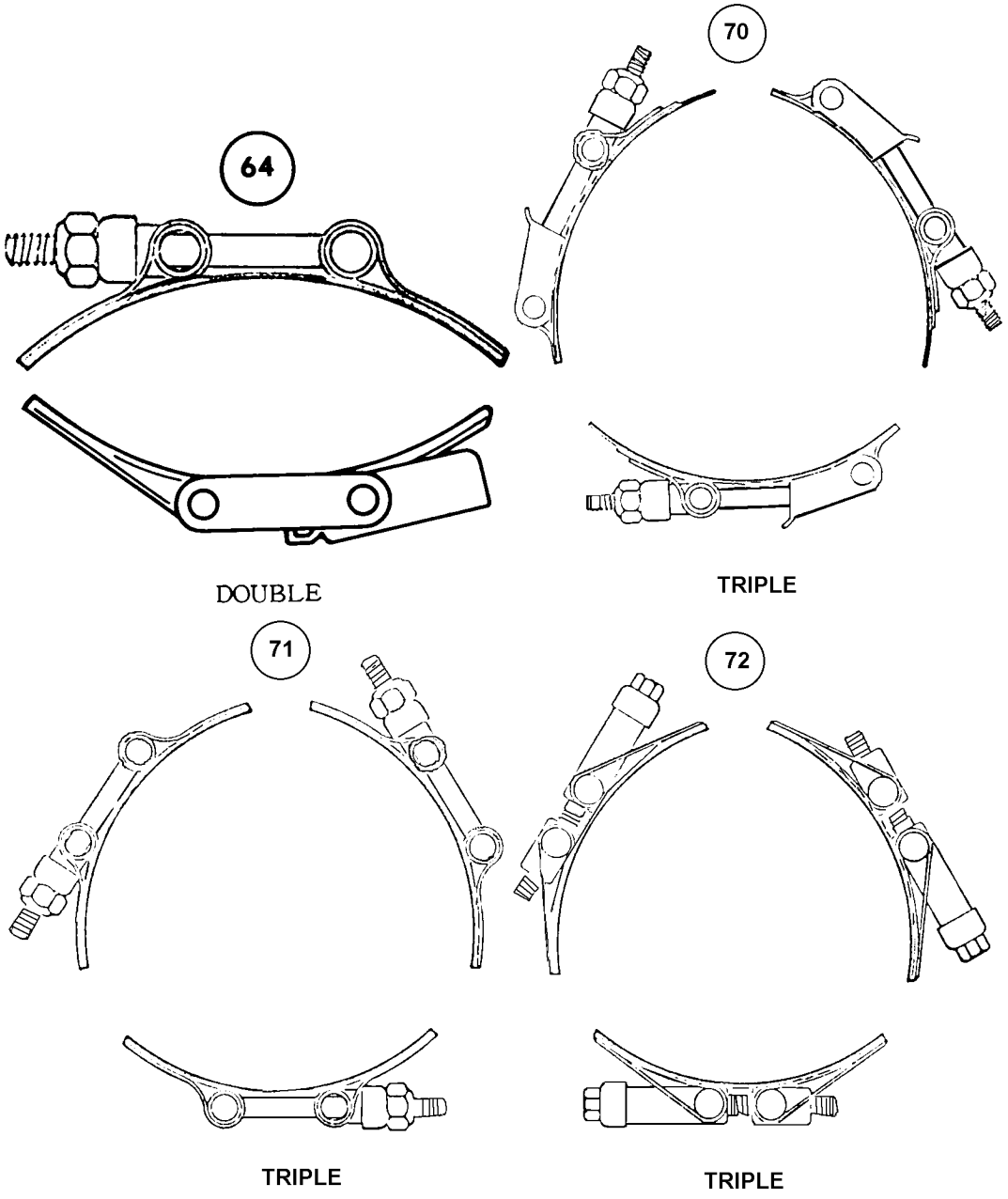
(No Requirements)

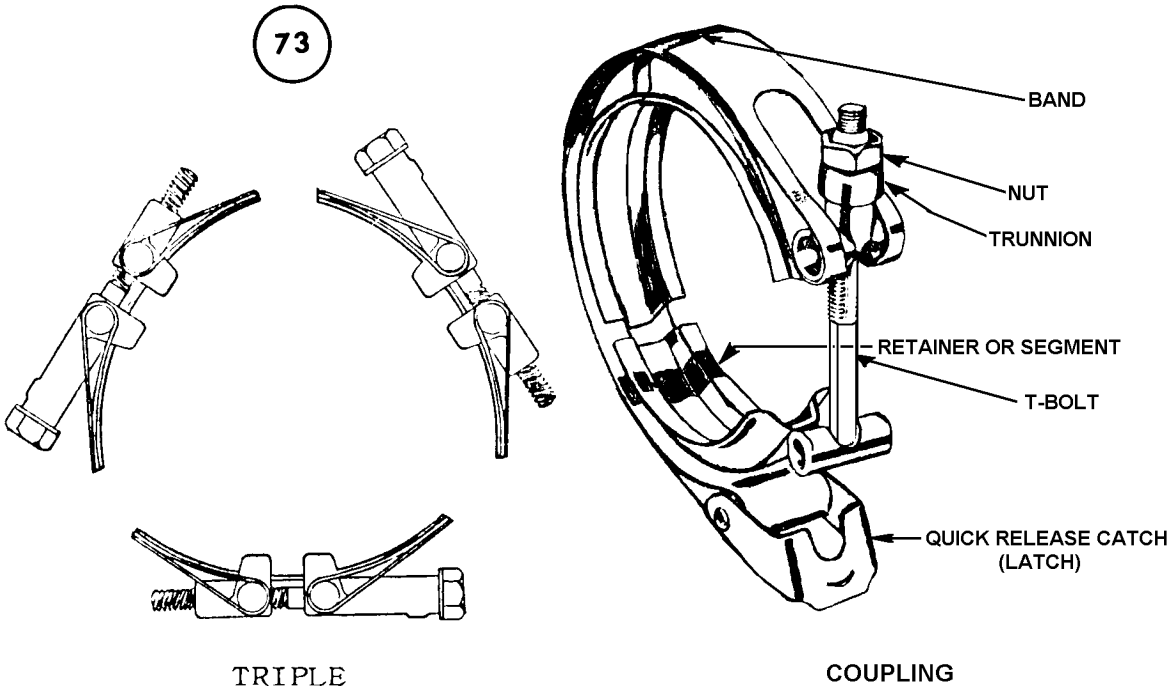



38
SINGLE
39
SINGLE
45
HALF
46
HALF
47
HALF
55
48
HALF
49
HALF
DOUBLE


56
57
DOUBLE
DOUBLE
58
59
DOUBLE
DOUBLE


60
DOUBLE
61
DOUBLE
62
DOUBLE
63
DOUBLE


64
70
DOUBLE
TRIPLE
71
72
TRIPLE
TRIPLE



TRIPLE COUPLING

REFERENCE DRAWING GROUP D Tables
GROOVED HALF SEGMENT CROSS-SECTIONAL STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKUJAA0.250*; ABKUJLA63.5*; ABKUJAB0.245$$JAC0.255*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

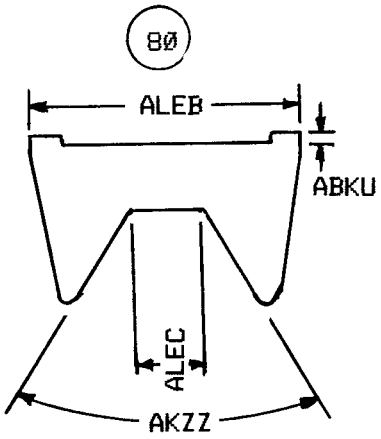
MRC	Mode Code	Name of Dimension
ABKU	J	FLANGE THICKNESS
ALEB	J	RETAINER WIDTH
ALEC	J	ROOT WIDTH

Enter the numeric value. (e.g., AKZZB45.0*)

MRC	Mode Code	Name of Dimension
AKZZ	B	INCLUDED ANGLE IN DEG

REFERENCE DRAWING GROUP D

GROOVED HALF SEGMENT CROSS-SECTIONAL STYLE



V SHAPE

REFERENCE DRAWING GROUP E Tables
SEGMENT STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABVTJAA0.250*; ABVTJLA63.5*; ABVTJAB0.245$$JAC0.255*)

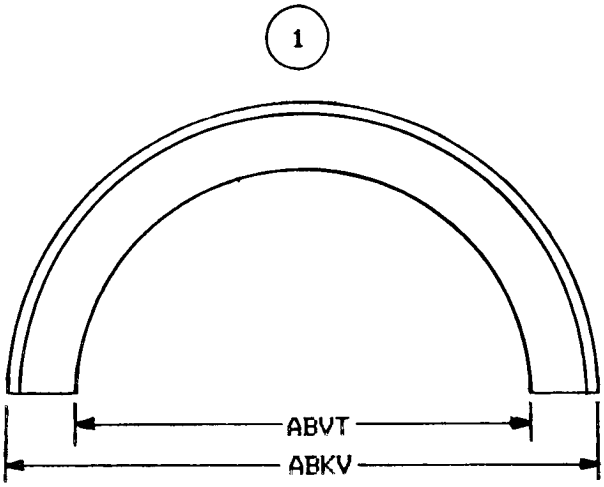
REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

MRC	Mode Code	Name of Dimension
ABVT	J	DIAMETER
ABKV	J	OUTSIDE DIAMETER

REFERENCE DRAWING GROUP E

SEGMENT STYLES



RETAINER

Technical Data Tables

STANDARD FRACTION TO DECIMAL CONVERSION CHART

4ths	8ths	16ths	32nds	64ths	To 3	To 4	4ths	8ths	16ths	32nds	64ths	To 3	To 4
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	------	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----		.062	.0625			9/16	-----	-----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	------	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----	-----	-----	.125	.1250		5/8	-----	-----	-----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	------	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----	-----	.188	.1875			11/16	-----	-----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	------	.219	.2188				23/32	------	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----	-----	-----	-----	.250	.2500	3/4	-----	-----	-----	-----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	------	.281	.2812				25/32	------	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----	-----	.312	.3125			13/16	-----	-----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	------	.344	.3438				27/32	------	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----	-----	-----	.375	.3750		7/8	-----	-----	-----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	------	.406	.4062				29/32	------	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----	-----	.438	.4375			15/16	-----	-----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	------	.469	.4688				31/32	------	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
					.500	.5000						1.000	1.0000

CELSIUS-FAHRENHEIT CONVERSION TABLE

CONVERTED TO CELSIUS	TEMP READING	CONVERTED TO FAHRENHEIT
-62.2	-80	-112.0
-56.7	-70	-94.0
-51.1	-60	-76.0
-45.6	-50	-58.0
-40.0	-40	-40.0
-34.4	-30	-22.0
-31.7	-25	-13.0
-28.9	-20	-4.0
-26.1	-15	+5.0
-23.3	-10	14.0
-20.6	-5	23.0
-17.8	0	32.0
-15.0	5	41.0
-12.22	10	50.0
-9.44	15	59.0
-6.67	20	68.0
-3.89	25	77.0
-1.11	30	86.0
1.67	35	95.0
4.44	40	104.0
7.22	45	113.0
10.00	50	122.0
12.78	55	131.0
15.56	60	140.0
18.33	65	149.0
21.11	70	158.0
23.89	75	167.0
26.67	80	176.0
29.44	85	185.0
32.22	90	194.0
35.00	95	203.0
37.78	100	212.0
40.56	105	221.0
43.33	110	230.0
46.11	115	239.0
48.89	120	248.0
51.67	125	257.0
54.44	130	266.0
57.22	135	275.0
60.00	140	284.0

65.56	150	302.0
71.11	160	320.0
76.67	170	338.0
82.22	180	356.0
87.78	190	374.0
93.33	200	392.0
98.89	210	410.0
104.44	220	428.0
110.00	230	446.0
115.56	240	464.0
121.11	250	482.0
126.67	260	500.0
132.22	270	518.0
137.78	280	536.0
143.33	290	554.0
148.89	300	572.0
154.44	310	590.0
160.00	320	608.0
165.66	330	626.0
171.11	340	644.0
176.67	350	662.0
182.22	360	680.0
187.78	370	698.0
193.33	380	716.0
198.89	390	734.0
204.44	400	752.0
210.00	410	770.0
215.56	420	788.0
221.11	430	806.0
226.67	440	824.0
232.22	450	842.0
237.78	460	860.0
243.33	470	878.0
248.89	480	896.0
254.44	490	914.0
260.00	500	932.0
265.56	510	950.0
271.11	520	968.0
276.67	530	986.0
282.22	540	1004.0
287.78	550	1022.0

The middle column of figures contains the reading (|SDF or |SDC) to be converted. If converting from degrees Fahrenheit to degrees Celsius, read the Celsius equivalent in the column headed

"Converted to Celsius". If converting from Celsius to Fahrenheit, read the Fahrenheit equivalent in the column headed "Converted to Fahrenheit".

FIIG Change List, Effective December 4, 2009.

Replaced SAC "Secondary Address Coding" with AND/OR Coding for MRC's ANNQ and ANNR.

Removed Reply Code AAA Any Acceptable from Table 1.

Updated MRC Name in Section 1.